

Title (en)

LIGAND, METAL COMPLEX CONTAINING LIGAND, AND REACTION USING METAL COMPLEX CONTAINING LIGAND

Title (de)

LIGAND, METALLKOMPLEX MIT DEM LIGANDEN UND REAKTION UNTER VERWENDUNG DES METALLKOMPLEXES MIT DEM LIGANDEN

Title (fr)

LIGAND, LIGAND CONTENANT UN COMPLEXE MÉTALLIQUE ET RÉACTION UTILISANT LE LIGAND CONTENANT UN COMPLEXE MÉTALLIQUE

Publication

EP 2966081 A4 20160824 (EN)

Application

EP 14760209 A 20140304

Priority

- JP 2013042385 A 20130304
- JP 2014055510 W 20140304

Abstract (en)

[origin: EP2966081A1] A hydrogen transfer reaction may be more efficiently promoted by using a metal complex represented by Formula (2): (wherein, R 1 to R 8 are the same or different, and each represents a hydrogen atom, a substituted or unsubstituted alkyl group or the like; or wherein; R 1 and R 2 , R 2 and R 3 , R 3 and R 4 , R 4 and R 5 , and R 5 and R 6 are respectively bonded to each other to form a bivalent hydrocarbon group; R 9 are the same or different, and each represents an alkyl group or cycloalkyl group; M is ruthenium (Ru) or the like; X is a ligand; and n is 0, 1 or 2). More specifically, the metal complex enables a hydrogenation reaction of various substrates having a stable carbonyl group or the like to be advanced with a high yield under mild conditions.

IPC 8 full level

C07F 9/58 (2006.01); **B01J 31/24** (2006.01); **C07B 61/00** (2006.01); **C07C 29/145** (2006.01); **C07C 29/149** (2006.01); **C07C 31/04** (2006.01); **C07C 31/20** (2006.01); **C07C 33/20** (2006.01); **C07C 33/22** (2006.01); **C07C 33/24** (2006.01); **C07C 209/50** (2006.01); **C07C 211/27** (2006.01); **C07C 213/02** (2006.01); **C07C 215/08** (2006.01); **C07F 9/6561** (2006.01); **C07F 15/00** (2006.01); **C07F 15/02** (2006.01); **C07F 15/04** (2006.01)

CPC (source: EP US)

B01J 31/189 (2013.01 - EP US); **B01J 31/24** (2013.01 - US); **B01J 31/2414** (2013.01 - US); **C07C 29/132** (2013.01 - US); **C07C 29/145** (2013.01 - EP US); **C07C 29/149** (2013.01 - EP US); **C07C 67/28** (2013.01 - US); **C07C 209/50** (2013.01 - EP US); **C07C 213/00** (2013.01 - US); **C07C 213/02** (2013.01 - EP US); **C07D 207/33** (2013.01 - EP US); **C07F 9/58** (2013.01 - EP US); **C07F 9/6561** (2013.01 - EP US); **C07F 15/004** (2013.01 - EP US); **C07F 15/0053** (2013.01 - EP US); **C07F 15/0066** (2013.01 - EP US); **C07F 15/008** (2013.01 - US); **C07F 15/0093** (2013.01 - US); **C07F 15/025** (2013.01 - EP US); **C07F 15/045** (2013.01 - EP US); **C07F 15/065** (2013.01 - EP US); **B01J 2231/641** (2013.01 - US); **B01J 2231/643** (2013.01 - EP US); **B01J 2231/645** (2013.01 - EP US); **B01J 2231/76** (2013.01 - US); **B01J 2531/0241** (2013.01 - EP US); **B01J 2531/821** (2013.01 - EP US); **B01J 2531/822** (2013.01 - US); **B01J 2531/827** (2013.01 - US); **B01J 2531/828** (2013.01 - US); **B01J 2531/842** (2013.01 - US); **B01J 2531/845** (2013.01 - EP US); **B01J 2531/847** (2013.01 - EP US); **Y02P 20/52** (2015.11 - EP US)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 2014136795A1

Cited by

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Designated contracting state (EPC)

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